Section 2. Form PTO-	449 (Mod	dified)									_4		Sheet 1 of 6		
FORM PTO-1449 (Modified)	U.S. ( PATE	DEPAR NT AN	TMENT ID TRAI	OF CO	OMMER	RCE		,	ATTY	DOCKET NO. ASTRX-010/	A	SERI	AL NO. 09/776,52	3	
	INFO STA	ORMAT TEMEN	TON DI	SCLOS	URE ANT	,	H		APPL	ICANT Brad Freeman					
, (27 CED 1 00/b)\	(Use	several	l sheets	if neces	sary)	1	75		FILIN	G DATE February 2, 2001	GRO	JP			
(37 CFR 1.98(b))							US	PATEN	IT DOC	UMENTS	-				
EXAMINER INITIAL			PATE	NT NU	MBER			ISS DA		PATENTEE	CL	CLASS SUBCLASS			DATE OPRIATE
die	5	2	6	7	9	4	6	12/07/							
3670W	5	5	4	7	4	6	4	08/20/	1996	Luttrell et al.					
B WE	5	5	7	1	2	0	6	11/05/	1996	Varn					
<u> </u>	COP	/ OF	PAPE	RS								***			
- CEE			YFIL												
ENT _										·					
	J			<u> </u>	<u> </u>										
						<u> </u>							l i		
	-	_								<del></del>			<u> </u>		_
	+			-											
		L	L	L		COCICNI	DATENT	VD DI 101 161	L	GN PATENT APPLICATION	L		<u> </u>		
		-				OMEIGN	AIENIC	PUBLIC	ATION	COUNTRY OR				TRANSL	LATION
ļ			DOCL	JMENT NU	MBER			DAI	E	PATENT OFFICE	CL	ASS	SUBCLASS	YES	NO
													一个	2	
													AUD	~~/	1/2
												**C	Kryn 1	9 .	5/
													YNO <sub>LOGY</sub>	<00	<b>,</b>
													CE	کر	<u></u>
		то	HER D	OCUM	ENTS (	Includi	na Auth	or, Title.	Date**	, Relevant Pages, Place of	f Publica	ation***	)	Pop Ros	<del></del>
					<del></del>		М							-	<del>-0</del>
											**				
	1									· · · · · · · · · · · · · · · · · · ·					
	-														
	+							-						<u></u>	
	-														
	_L	<u> </u>		_						-0.1.1					
EXAMINER	ر الروال	4.	9			DAT	E CON	SIDEREE	)	8/11/02					
		Tuen				<u> </u>				on and not considered. Inc		<b>.</b>	, ,		

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

VPATENTS\VABUT02A.981

(Modified)

(37 CFR 1.98(b))

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO. ASTRX-0010A

SERIAL NO. 09/776,523

APPLICANT BRAD FREEMAN, et al.

FILING DATE 2-2-01

GROUP

Sheet 1 of 6

A.							U.S	S. PATENT DO	CUMENTS				_
EXAMINER INITIAL	<u> </u>		PATI	ENT NU	MBER	Ţ	<b>.</b>	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILIN(	G DAT
JUP .	D	2	6	9	3	7	9	06/1983	Bledsoe				
SW.	D	2	8	4	7	0	2	07/1986	Castillo				
3	D	2	9	8	5	6	8	11/1988	Womack				
May 1	D	3	1_	8	7	3	6	07/1991	Castillo				
- WB/	D	3	4	6	0	2	8	04/1994	Lengyel				
CARE VI	┛	3	5	7	0	7	0	04/1995	Castillo				
OT WEEK	1	3	9	0	9	1	5	09/1921	Loth				
W	2	5	3	1	4	8	6	11/1947	Weber				
W	2	8	8	3	9	8	2	04/1959	Rainey				
we	3	0	3	0	6	3_	4	04/1962	Bair				
W	3	0	9	9	4	4	8	07/1963	Salvo et al.				
Wif-	3	3	8	7	3	0	5	06/1968	Shafer			***	
				FORE	IGN P	ATENT	OR P	UBLISHED FOR	REIGN PATENT APPLICA	TION			
		,	DOC! 18	45 N.T. N.				PUBLICATION DATE	COUNTRY OR			TRANSI	LATION
	<u> </u>		DOCUN	UMENT NUMBER					PATENT OFFICE	CLASS	SUBCLASS	YES	N
	2	9	7	7	6	6	Α	04/1989	European Pat. Off.				
W	1	4	9	_11	5	6	9	07/1969	Germany				х
W	2	4	3	2	7	6	6	03/1975	Germany				×
W	8	4	0	4	2	_ 4	0	11/1984	WIPO				
·													
		ОТН	ER DO	CUME	NTS (Ir	ncludin	g Auth	or. Title. Date*	, Relevant Pages, Place	of Publication*	**\		
									<del> </del>				
								· · · · · · · ·		<del></del>			
	1 1										<del></del>		
	-									<del> </del>			
								7 1					
	1 1											-	

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

\PATENTS\VABUT02A.981

**EXAMINER** 

FORM PTO-1449			RTMF	NT OF	COMM	EDCE			Sheet 2 of 6  ATTY. DOCKET NO. ASTRX-0010A SERIAL NO. 09/776.523							
(Modified)	PAI	ENTA	ND TR	ADEM	ARK O	FFICE			AII	T. DOCKET NO. ASTRX-(	0010A 	SER	IAL NO. 09/776,5	i23 		
	STA	ORMA'	TION D NT BY	ISCLO APPLI	SURE			ĺ	APF	LICANT Brad Freeman,	et al.					
(37 DFR 1.98(b))	(Use	severa	d sheets	s if nece	essary)				FILI							
·							U.S	. PATEN	T DOC	CUMENTS						
EXAMINER INITIAL		-	PAT	ENT NL	JMBER			ISSI DAT	JE JE	PATENTEE	CL	CLASS SUBCLASS		FILING IF APPI	G DAT	
Hip	3	6	6	9	1	0	5	06/19	973 Home							
Emile	3	7	7	9	6	5	4	12/19								
W 3	3	7	8	5	3	7	2	01/19								
8 200 kg	3	8	1	7	2	4	4	06/19	74	Taylor						
W 5/	3	9	0	0	8	9	8	08/19	75	Kerman				-		
13.17.20.2	3	9	0	2	4	8	2	09/19	75	Taylor	1					
ADE W	3	9	2	8	8	7	2	12/19	75	Johnson						
VIE	3	9	5	8	5	6	9	05/19	76	Vosburgh						
iliè—	4	1	3	6	4	0	4	01/19	79	Lange						
Vis	4	1	6	9	4	6	7	10/19	79	Rabischong et al.						
Vis	4	2	4	1	7	3	0	12/19	ВО	Helfet						
Vist2	4	2	7	1	8	3	1	06/198	B1	Deibert						
				FORE	IGN P	ATENT	OR PL	JBLISHE	D FOR	EIGN PATENT APPLICA	TION					
								PUBLICAT DATE	- 1	COUNTRY OR				TRANSLATION		
			DOCUM	MENIN	UMBER				PATENT OFFICE	PATENT OFFICE	CLASS		SUBCLASS	YES	NO	
		ОТН	ER DO	CUME	NTS (In	cludin	g Auth	or, Title,	Date**	, Relevant Pages, Place	of Public	——— ation**	*)		Щ.	
								· · · · ·		,	0. 7 45.10	0.0011				
İ					•								·			
			_				-									
							-									
	$\neg \dagger$				-								<del></del>			
	+								w							
EXAMINER	li M	لغننين				DATE	CONS	IDERED		8/11/13			<del></del>	<del>-</del> . <u></u>	<u> </u>	
			<u></u>							V 1111 Y /						

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

**VPATENTS** 

IDS1449.PTO

INFO STA	3 3 3 4 4 4	TION D NT BY	ENT NL	CANT essary)	4 9	U.S	АР	PATENTEE	N, ET AL.	GROUP  S SUBCLASS			
4 4 4 4 4 4 4 4	3 3 4 4 4 4 4	PATI 6 7 8 0 2	ENT NU	UMBER 1 2 7	9	2	FIL S. PATENT DO ISSUE DATE	ING DATE 2-2-01 CUMENTS PATENTEE			FILING IF APPR		
4 4 4 4 4 4	3 3 4 4 4 4	PATI 6 7 8 0 2 8	1 2 1 7 8	IMBER 1 2 7	9	2	ISSUE DATE	CUMENTS PATENTEE	L		FILING IF APPR		
4 4 4 4 4	3 3 4 4 4 4 4	6 7 8 0 2	1 2 1 7 8	1 2 7	9	2	ISSUE DATE	PATENTEE	CLAS	S SUBCLASS	FILING IF APPR		
4 4 4 4 4	3 3 4 4 4 4 4	6 7 8 0 2	1 2 1 7 8	1 2 7	9	2	ISSUE DATE	PATENTEE	CLAS	S SUBCLASS	FILING IF APPE		
4 4 4 4 4	3 3 4 4 4 4 4	7 8 0 2 8	2 1 7 8	7	9				ULAG	3 SUBCLASS	IF APP	FILING DAT	
4 4 4 4	3 4 4 4 4	8 0 2 8	7 8	7				Lewis et at.		1	ł	COPRIAT	
4 4 4 4	4 4 4 4	0 2 8	7 8			8	02/08/83	Lerman					
4 4 4 4	4 4 4	8	8	2	6	8	05/03/83	Ericksen, et al.					
4 4 4	4 4	8			7	6	10/04/83	Bledsoe			<u> </u>		
4 4	4	T	ĺ	3	6	9	01/31/84	Peckham et al.					
4	4	8	7	2	0	0	12/11/84	Feanny et al.					
4			9	7	1	8	12/15/84	Martin					
		9	3	3	1	6	01/15/85	Reed, et al.					
4					3	4	01/22/85	Hutson					
				8	4	6	03/12/85	Martin					
4	5	2	3	5	8	5	06/18/85	Lamb et al.					
4	5	5	4	9	1	3	11/26/85	Womack et al.					
			FORE	IGN P	ATENT	OR PL	JBLISHED FO	REIGN PATENT APPLICA	TION				
	1		TRANSLATION										
<del></del>		T		UMBER	·			PATENT OFFICE	CLASS	SUBCLASS	YES	NO	
$\dashv$													
<del> </del>													
$\bot$							i						
<del></del> _	ОТН	ER DO	CUME	VTS (In	cludin	g Auth	or, Title, Date*	*, Relevant Pages, Place	of Publicati	ion***)			
4													
$\dashv$													
$\dashv$													
$\dashv$											•		
$\neg$		_		<u>-</u>	DATE	CONS	IDERED	9/12	<del></del>		<u> </u>		
		ion consid		ion considered. Draw li	ion considered. Draw line thro	DATE Ion considered. Draw line through ci	DATE CONS	DATE CONSIDERED	DATE CONSIDERED 8/11/6-2	DATE CONSIDERED 8/11/6-3	ion considered. Draw line through citation if not in conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation and not against a specific and line to the conformation a	DATE CONSIDERED 8/11/63	

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

\PATENTS\VABUT02A.981

4	Section 2. Form	1 PTO-1	449 (M	odified)								_	Sheet	A of F	į		
•	FORM PTO (Modified)	-1449	U.S. PAT	DEPA	RTMEI ND TR	NT OF ADEM	COMN ARK C	MERCE OFFICE			AT	TY. DOCKET NO. ASTRX-			IAL NO. 09/776	,523	
			INFO STA	ORMAT TEME	TION D NT BY	ISCLO APPLI	SURE				API	PLICANT BRAD FREEMA	N, ET AL.				
	(37 DFR 1.9	8(b))	(Use	severa	l sheets	if nece	essary)				FILING DATE 2-2-01 GROUP						
		<del> </del>							U.	S. PATEN	IT DO	CUMENTS					
	EXAMINER INITIAL		l		PATE	ENT NU	JMBER			ISS							
11		1	4	5	5	9	9	T 9	8	DA 07/15	<u>TE</u>	PATENTEE Castillo	CLAS	CLASS SUBCLASS		FILING DATE IF APPROPRIATE	
	W 3		4	6	0	3	6	9	0	1	5/86 Skeen		<del>                                     </del>		<del> </del>	<del> </del>	
ا من	O B DON HE		4	6	1	4	1	8	1	09/30			<del>                                     </del>			<del> </del>	
YAM	WE		4	6	2	0	5	3	2			Karlsson				<del> </del>	
REST	What I		4	6	2	1	6	2	1	11/04		Houswerth	┼		<u> </u>	<del> </del>	
W/B	PRADER		4	6	2	8	1		4	11/11		Rayboy	<del> </del>		 	ļ	
	- Vizi						9	1	6	12/16		Lerman et al.	<del> </del>				
	110		4	_ 6	6	5	9	0	5	05/19	/87	Brown	<u> </u>			L	
		-	_4	6	8	_1_	0	9	7	07/21	/87	Pansier					
	110		4	6	9	7	5	8	3	10/06/	187	Mason et al.			<u> </u>		
	111	$\vdash$	4	6	9	9	1	2	9	10/13/	87	Aaserude et al.					
			4	7	_1	5	3	6	3	12/29/	87	Detty					
	- YUF		4	7	2	3	5	_3	9	02/09/	88	Townsend					
		FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION														-	
	l			_						PUBLICAT DATE		COUNTRY OR				TDANC	ATION
-				L.	OCUM	ENT N	JMBER			DATE				3	SUBCLASS	TRANSLATION	
_														┰┪		YES	NO
_					T						$\neg \dagger$			-+			<del>                                     </del>
										· · · · · ·	$\neg \uparrow$			$\dashv$		<del></del>	<del></del>
_														-		-	<del> </del>
_										<u></u>	$\dashv$			$\dashv$			<u> </u>
•		L		L	- L												<u> </u>
-		$\neg$ T	$\overline{}$	OTHE	K DOC	UMEN	IIS (In	cludin	g Auth	or, Title, i	Date**	, Relevant Pages, Place o	f Publicati	ion***	")		
	ŀ	_ <b> </b> -															
-	<del></del>	$\dashv$	-														
	]	-															
-														_			
	t	Ļ															
_																	
	EXAMINER	Ì	line	<i>م</i> نه				DATE	CONS	IDERED		8/11/02			·		
_	EXAMINER: In communication				red. D	raw lii	ne thro	ugh ci	tation i	f not in c	onfor	mation and not considere	d. Include	е сору	y of this form w	ith next	<del></del>
											-						
													ST	ETINA	Atty: BRUNDA GARR 75 Ent	emrise S	uite 250
\P.	ATENTS!						II	DS1449.	РТО						Aliso	Viejo, C. 49) 855-1:	A 92656

•	FORM PTO-14 (Modified)	49	U.S. E	DEPAR	TMEN	T OF C	OMME RK OF	RCE			ATT	Y. DOCKET NO. ASTRX-001	0A	SERIAL NO. 09/776,523				
			INFO	RMATI EMEN	ON DI	SCLOS	URE				APP	LICANT BRAD FREEMAN,	ET AL.	·				
	(37 CFR 1.98(t	o))	(Use s	several	sheets	if neces	sary)				FILI	NG DATE 2-2-01		GRO	UP			
				,					U.S	. PATEN	IT DOC	CUMENTS						
	EXAMINER INITIAL				PATE	NT NU	MBER			ISS DA		PATENTEE	CLA	<b>NSS</b>	SUBCLASS	FILING IF APPRO	DATE	
	- VIP		4	7	5	3	2	4	0	12/2		Sparks						
TP	E		4	7	9	1	9	1	6	12/2	0/88	Paez						
/0		,	4	8	0	3	9	7	5	02/1	4/89	Meyers						
4	08.00		4	8	5	4_	3	0	8	08/0	8/89	Drillio						
/ My	WE		4	8	5	6	5	0	1	08/1	5/89	Castillo et al.						
CATENT	WILLE		4	8	8	6	0	5	4	4 12/1		Castillo et al.						
•			4	9	3	8	2	0	7	07/0	3/90	Vargo				<u> </u>		
	Vik		4	9	4	0	0	4	4	07/1	0/90	Castillo						
	- Vir		4	9	6	4	4	0	2_	Grim	et al.	10/23/90						
	Mi		4	9	8	6	2	6	4	01/2	2/91	Miller						
	Jir.		5 0 6 3 9		1	6	11/1	2/91	France et al.				<u> </u>					
	His		5 1 2 1 7				4	2_	06/1	6/92	Engen				<u> </u>			
						FOR	EIGN F	ATEN	T OR P	UBLISH	ED FO	REIGN PATENT APPLICAT	ION					
										PUBLIC	ATION TE	COUNTRY OR	CL	LASS SUBCLASS	CHECHASS	TRANSL	ATION	
					DOCUI	MENIN	IUMBEI	·				PATENT OFFICE			SUBCEASS	YES	NO	
					<u> </u>				<u> </u>			-,	L			L		
					<u> </u>				<u> </u>							<u> </u>	ļ	
				OTH	IER DO	CUME	ENTS (	ncludi	ng Aut	hor, Titl	e, Date	**, Relevant Pages, Place o	of Publ	ication'	***)			
																	-,	
	EXAMINER	l	iDu	ے دارند	-			DA <sup>-</sup>	LE CON	ISIDER	Đ	8/11/13						

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

Sheet 5 of 6

Section 2. Form PTO-1449 (Modified)

•	FORM PTO-1449 (Modified)	U.S. D PATE	DEPAR INT AN	TMEN ID TRA	T OF C DEMA	RK OF	FICE			ATTY	7. DOCKET NO. ASTRX-00	10A	SERIAL NO. 09/776,523				
		INFO	RMATI EMEN	ON DIS	SCLOS	URE				APPI	LICANT BRAD FREEMAN E	T AL.					
	(37 DFR 1.98(b))	(Use s	everal :	sheets i	if neces	sary)				FILIN	IG DATE 2-2-01		GRO	UP			
-			*					U.S	. PATEN	IT DOC	UMENTS						
	EXAMINER INITIAL			PATE	NT NU!	MBER		·	ISS DA	SUE ATE PATENTEE		CLASS SUBCLASS			FILING IF APPRO	DATE	
	W	5	1_	3	5	4	6	9	08/0	1/92	Castillo						
10	EVIE	5	2	3	0	6	9	7	07/2	7/93	Castillo et al.						
011	- 6	5	2	8	8	2	8	7	02/2	2/94	Castillo						
MAY D	8 700 B						<u> </u>					-					
PRENT & TR	6 1001 E																
CATE TR	ADEMAR																
		$\perp$								_		ļ					
									ļ								
		+				<u> </u>	_		<b> </b>			-					
	-	+						-									
		1			FORE	EIGN P	ATEN	T OR P	UBLISH	ED FOF	REIGN PATENT APPLICA	TION	<del></del>	1	1		
									PUBLIC		COUNTRY OR				TRANSL	ATION	
				DOCUM	MENT N	UMBEF	₹				PATENT OFFICE	CLA	455	SUBCLASS	YES	NO	
								<u> </u>							ļ		
						<u> </u>	ļ	ļ	ļ								
		1 1						<b> </b>						ļ			
								ļ						ļ			
					<u> </u>	<u> </u>		<u> </u>	<u> </u>			-45-1-11				<u> </u>	
		T 1	отн	ER DC	CUME	NTS (I	ncludi	ng Aut	nor, Titl	e, Date	*, Relevant Pages, Place	of Publi	cation	)			
														·. ·			
						and survey.	<del>i      </del>										
	EXAMINER	un	rein	9			DAT	E CON	ISIDERE	D	8/11/03						

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Atty: Kit M. Stetina STETINA BRUNDA GARRED & BRUCKER 75 Enterprise, Suite 250 Aliso Viejo, CA 92656 (949) 855-1246

Sheet 6 of 6

IDS1449.PTO

Section 2. Form PTO-1449 (Modified)